T-225 P.005/011 F-884

## IN THE CLAIMS

AUG 1 5 2006

The following marked up listing of claims replaces all prior versions, and listings, of claims in the application.

## Marked Up Listing of Claims

- 1. (Original) An apparatus for a communication system, comprising:
- a decover element for decovering a plurality of received samples to provide decovered half-symbols, wherein the decover element is configured to perform decovering with a decovering channelization symbol having a length (T) that is half the length (2T) of a covering channelization symbol used to cover the received samples; and
- a first multiplier for receiving the decovered half-symbols and pilot symbols to provide demodulated half-symbols.
- 2. (Original) The apparatus of claim 1, wherein the received samples are despread received samples, further comprising:
  - a second multiplier for producing the despread received samples.
  - 3. (Original) The apparatus of claim 1, further comprising:
  - a combiner for combining the demodulated half-symbols received from the first multiplier.
  - 4. (Original) The apparatus of claim 3, wherein the combiner comprises:
- a first accumulator for accumulating the demodulated half-symbols corresponding to a first half of a symbol period; and
- a second accumulator for accumulating the demodulated half-symbols corresponding to a second half of the symbol period.
  - 5. (Original) The apparatus of claim 1, further comprising:
- a switch for selectively outputting the demodulated half-symbols corresponding to a first half of the symbol period and the demodulated half-symbols corresponding to a second half of the symbol period.

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6-16 (Cancelled).

- 17. (Original) A communication system, comprising:
- a transmitter; and
- a receiver for processing a received signal transmitted from the transmitter, said receiver including:
  - a decover element for decovering a plurality of received samples to provide decovered half-symbols, wherein the decover element is configured to perform decovering with a decovering channelization symbol having a length (T) that is half the length (2T) of a covering channelization symbol used to cover the received samples; and
  - a first multiplier for receiving the decovered half-symbols and pilot symbols to provide demodulated half-symbols.
- 18. (Original) The communication system of claim 17, wherein the received samples are despread received samples, further comprising:
  - a second multiplier for producing the despread received samples.
  - 19. (Original) The communication system of claim 17, further comprising: a combiner for combining the demodulated half-symbols received from the first multiplier.
  - 20. (Original) The communication system of claim 19, wherein the combiner comprises:
- a first accumulator for accumulating the demodulated half-symbols corresponding to a first half of a symbol period; and
- a second accumulator for accumulating the demodulated half-symbols corresponding to a second half of the symbol period.
  - 21. (Original) The communication system of claim 17, further comprising:
- a switch for selectively outputting the demodulated half-symbols corresponding to a first half of the symbol period and the demodulated half-symbols corresponding to a second half of the symbol period.

22-32. (Cancelled).

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 (Original) A method for processing a received signal in a wireless communication system, comprising:

decovering a plurality of received samples to provide decovered half-symbols, wherein the decovering is performed with a decovering channelization symbol having a length (T) that is half the length (2T) of a covering channelization symbol used to cover the received samples; and

receiving the decovered half-symbols and pilot symbols to provide demodulated halfsymbols by a multiplier.

- 34. (Original) The method of claim 33, further comprising: despreading the received samples.
- 35. (Original) The method of claim 33, further comprising: combining the demodulated half-symbols received from the multiplier.
- 36. (Original) The method of claim 35, wherein said combining further comprises: accumulating the demodulated half-symbols corresponding to a first half of a symbol period in a first accumulator; and

accumulating the demodulated half-symbols corresponding to a second half of the symbol period in a second accumulator.

37. (Original) The method of claim 33, further comprising:

selectively outputting the demodulated half-symbols corresponding to a first half of the symbol period and the demodulated half-symbols corresponding to a second half of the symbol period.